

Emanuel Antablin

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SKILLS

- Programming Languages: Python, TypeScript, JavaScript, Bash, SQL
- AI/ML: LLMs, RAG, Agentic AI, Prompt Engineering, MCP, PyTorch, Scikit-Learn, TensorFlow, pandas
- Frameworks & Tools: FastAPI, React.js, OpenAI API, PostgreSQL, Prometheus
- Cloud& Infra: AWS, Azure, GCP, Kubernetes, Docker, Jenkins

EXPERIENCE

Lead Software Engineer, Walmart Global Tech 2022 – Present

- Deployed distributed agentic monitoring system across DC server infrastructure; agents continuously track memory, CPU, and storage utilization, autonomously detect anomalies, log diagnostic notes, and page SRE teams with pre-analyzed findings – eliminating idle discovery time entirely.
- Reduced MTTR from ~4 hours to under 30 minutes by ensuring SREs are alerted at anomaly onset and arrive with full context, replacing the legacy discover → escalate → troubleshoot chain.
- Engineered RAG pipelines integrating ServiceNow and internal APIs as LLM knowledge sources, supplying agents with real-time operational context and historical incident signal to inform diagnostics.
- Led enterprise agentic AI initiative across global logistics operations, reporting architecture and outcomes to director-level stakeholders.
- Eliminated sequential API bottleneck in legacy messaging platform by re-architecting recipient resolution as concurrent FastAPI calls; adopted across all North American distribution centers and supporting teams.
- Saved division +\$1m/year by automating technician workflows, increasing team throughput by 40%.
- Enforced OWASP Top 10 compliance across all customer-facing services; eliminated SQL injection vulnerabilities.
- Mentored network engineers from L1 to L3 through structured Python and backend curriculum.

Founding Technical Lead, Stealth Startup 2018 – 2022

- Trained language pattern recognition model as the core of an AI-led PTSD symptom analysis pipeline.
- Built end-to-end data collection, cleaning, and training set preparation pipelines from raw sources.
- Architected full-stack applications from requirements through deployment, owning technical roadmap.
- Documented model architecture and pipeline decisions, enabling reproducibility and onboarding of junior contributors.

Software Engineer, simuwatt 2018

- Acquired and cleaned building energy datasets from web and manual sources, preparing training data for PyTorch-based energy auditing model designed to benchmark buildings and recommend cost-reduction improvements.
- Expanded training database by 30% through web scraping pipelines; doubled viable in-house data by surfacing overlooked sets through Python parsing programs.
- Automated QA and internal user workflows via Selenium, cutting manual testing overhead and freeing engineering bandwidth for model development.
- Contributed to model fitting in collaboration with Data Science lead, raising end-of-year user retention by +20%.

Computer Science Tutor, Volunteer 2016 – Present

- Taught C++ through Python OOP via pair programming, structured syllabus, and project-based milestones.

EDUCATION

Full Sail University

B.S. in Computer Science, Salutatorian

Florida